

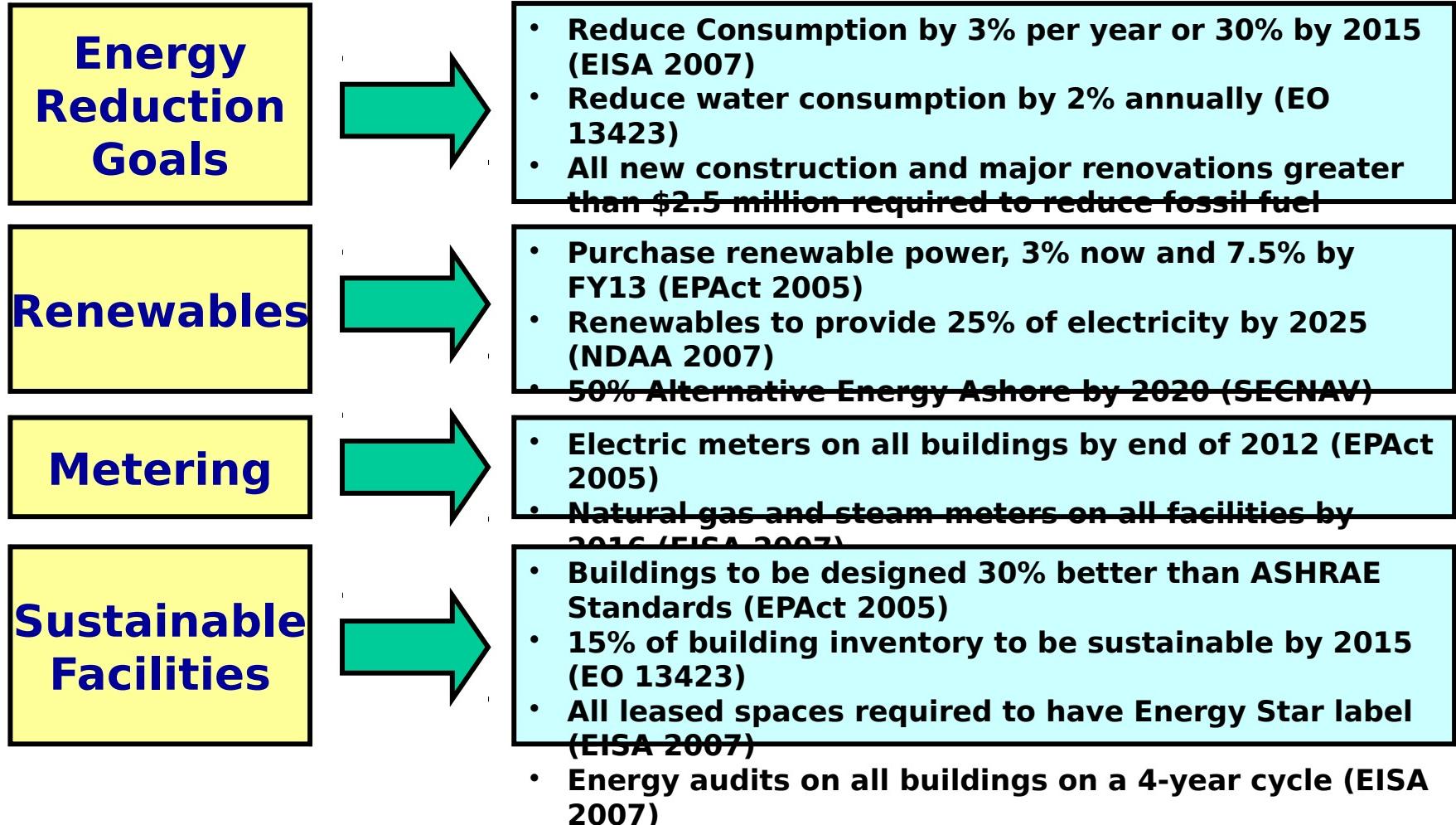


Regional Energy Vision

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Executive Officer, NAVFAC Mid-Atlantic**

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Navy's Shore Energy Goals



Navy Investment & Innovation



- **Energy Reduction**
 - Identify and deliver Installation-Level Energy Conservation Measures through:
 - Annual Building Energy Audits
 - Re-/Retro-commissioning assessments
 - Energy Savings Performance Contracts (ESPC)
 - Utility Energy Services Contracts (UESC)
 - Navy Energy SRM Projects - \$250M+ annual program Navy wide (21 Projects programmed in FY12)
- **Renewable Energy**
 - ARRA 2009 - Solar Projects
 - Energy Conservation Investment Program (ECIP)
- **Metering and Benchmarking**
 - Advanced Metering Infrastructure (AMI)
- **Sustainable Facilities**
 - All New Navy buildings to meet EPAct 2005 and EO 13423 Mandates
 - Construction to meet LEED Silver Criteria



Wind Turbine , JEBLC



GSHP Well Field at NS Norfolk



Green Roof at NAVSTA Norfolk



Take Aways

- **Mainstream Energy Execution**
- **Introduction of new Technology**
- **Demonstration of economic return / feasibility**
- **Integration of planning efforts**
- **Mix of funding approaches for projects (funded, financed)**

Questions?

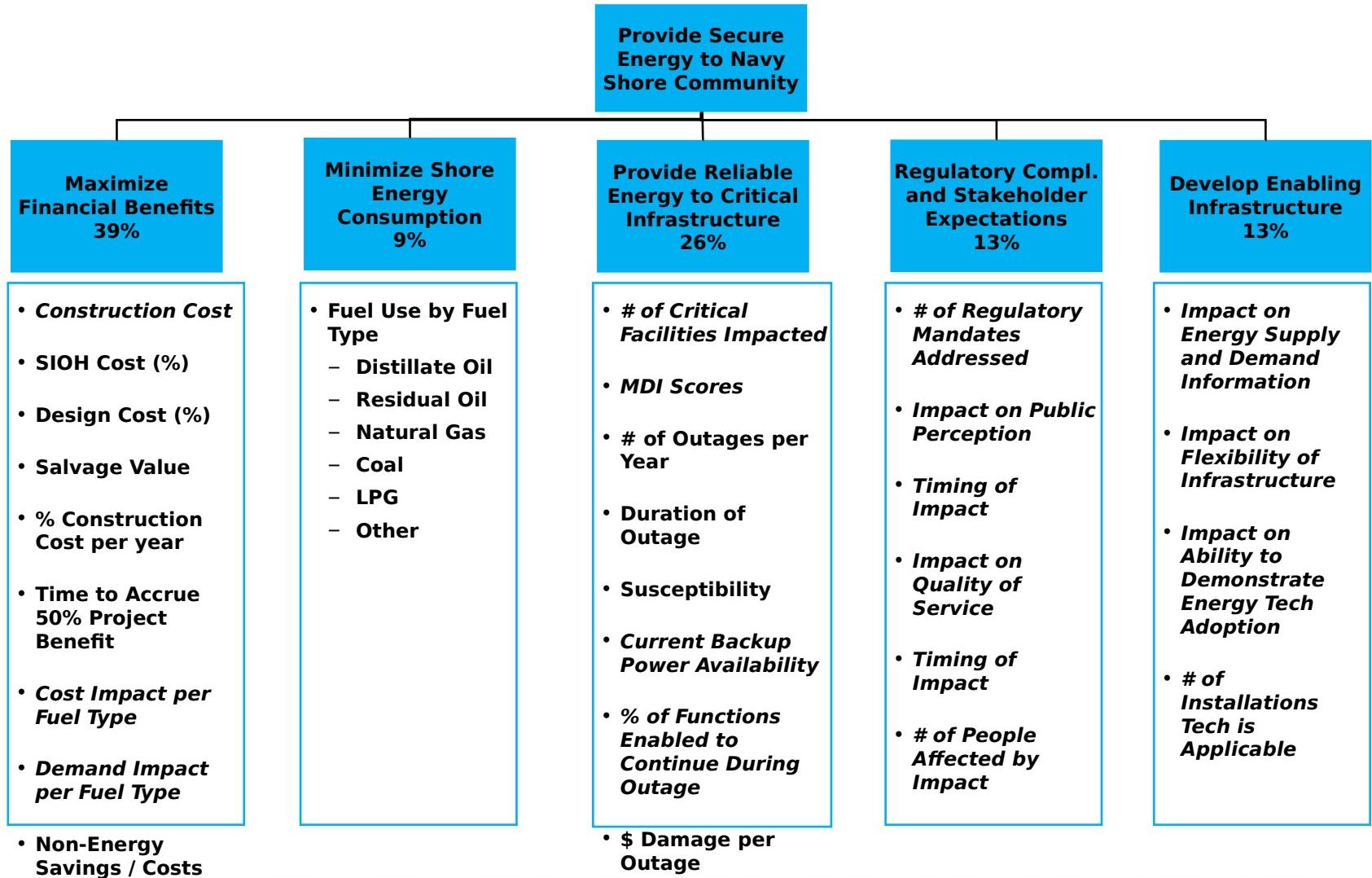




Backup



eROI Methodology





Funding Opportunities

ECIP (Energy Conservation Investment Program)

- **Subset of the Military Construction (MILCON) funding program**
- **Starting in FY06, dedicated to renewable energy projects (solar thermal, PV, GSHP, wind, biomass, daylighting, etc.)**
- **Recently allowed water reuse/reclamation/recycling projects**
- **Requirements**
 - Submissions typically due to NFESC by the end of June each year
 - Use Life-Cycle Cost Analysis form
 - > \$300K
 - Savings-to-Investment Ratio (SIR) > 1.0 for individual projects
 - Must include SIOH and PCAS

eSRM (Energy Special Projects)

- **Submission Requirements**

- Signed installation-level DD1391

- Completed eROI template